

In the Claims:

Please cancel claims 1-35. Please add new claims 36-159. The claims and their status are shown below.

1-35. (Canceled)

36. (New) An intramedullary rod kit for fixation of a distal radius fracture, the intramedullary rod kit comprising:

an intramedullary rod comprising:

a diaphyseal segment including at least one first mounting section configured to receive a tensioning device,

a middle segment; and

a joint segment including at least one second mounting section configured to receive a tine,

wherein the diaphyseal segment, the middle segment, and the joint segment define a curved configuration that is substantially similar to a curvature of the intramedullary canal of a human radius; and

at least one tine, wherein the tine comprises an insert from which at least one shaft extends and wherein the insert is configured to be mated to the second mounting section.

37. (New) The intramedullary rod kit of claim 36, wherein the shaft is integrally formed with the insert.

38. (New) The intramedullary rod kit of claim 37, wherein the insert includes a channel configured to receive a screw and wherein the intramedullary rod includes a threaded channel configured to receive the screw.

39. (New) The intramedullary rod kit of claim 38, wherein the threaded channel further comprises an opening extending through the intramedullary rod and configured to receive the shaft.

40. (New) The intramedullary rod kit of claim 36, wherein the joint segment includes an opening into a longitudinal channel that extends along a portion of a length of the intramedullary rod.

41. (New) The intramedullary rod kit of claim 40, wherein the longitudinal channel includes a threaded portion.

42. (New) The intramedullary rod kit of claim 36, wherein an outer diameter of the intramedullary rod varies between approximately 10 mm and 25 mm at the joint segment and approximately 2 mm and 9 mm at the diaphyseal segment.

43. (New) The intramedullary rod kit of claim 36, wherein an outer diameter of the intramedullary rod varies between approximately 12 mm and 15 mm at the joint segment and approximately 3 mm and 5 mm at the diaphyseal segment.

44. (New) The intramedullary rod kit of claim 36, wherein an outer diameter of the intramedullary rod varies between approximately 14 mm at the joint segment and approximately 3 mm at the diaphyseal segment.

45. (New) The intramedullary rod kit of claim 36, wherein the joint segment has a round cross-section or an oval cross-section.

46. (New) The intramedullary rod kit of claim 36, wherein the diaphyseal segment has a round or a generally round cross-section.

47. (New) The intramedullary rod kit of claim 36, wherein a length of the rod is between approximately 50 mm and 100 mm.

48. (New) The intramedullary rod kit of claim 36, wherein a length of the rod is approximately 80 mm.

49. (New) The intramedullary rod kit of claim 36, wherein the first mounting section comprises at least one channel having a threaded inner diameter.

50. (New) The intramedullary rod kit of claim 49, further comprising at least one bone screw configured to be passed through the first mounting section to mount the intramedullary rod to a diaphyseal portion of the radius.

51. (New) The intramedullary rod kit of claim 50, wherein the bone screw is a unicortical bone screw or a bicortical bone screw.

52. (New) The intramedullary rod kit of claim 40, further comprising a guide configured to be mounted to the intramedullary rod and configured to orient drill guides to be collinear with the first mounting section and the second mounting section of the intramedullary rod.

53. (New) The intramedullary rod kit of claim 52, wherein the guide is mounted to the intramedullary rod by insertion of a portion of the guide into the longitudinal channel in the intramedullary rod.

54. (New) The intramedullary rod kit of claim 53, wherein the portion of the guide that is inserted into the longitudinal channel is threadably inserted into the longitudinal channel.

55. (New) The intramedullary rod kit of claim 36, further comprising written instructions for use.

56. (New) The intramedullary rod kit of claim 36, further comprising an instructional video.

57. (New) The intramedullary rod kit of claim 36, further comprising a drill bit configured to drill a hole in bone tissue.

58. (New) The intramedullary rod kit of claim 36, wherein the diaphyseal segment of the intramedullary rod comprises a dimpled surface.

59. (New) The intramedullary rod kit of claim 36, wherein the intramedullary rod, and/or the tine are coated with a therapeutic agent.

60. (New) An intramedullary rod kit for fixation of a distal radius fracture, the intramedullary rod kit comprising:

an intramedullary rod comprising:

a diaphyseal segment including at least one first mounting section configured to receive a tensioning device,

a middle segment; and

a joint segment including at least one second mounting section configured to receive a tine,

wherein the diaphyseal segment, the middle segment, and the joint segment define a curved configuration that is substantially similar to a curvature of the intramedullary canal of a human radius; and

at least one tine, wherein the tine is a snap fit tine including a head having an opening into which teeth protrude and from which a shaft extends and wherein the second mounting section includes a channel around at least a portion of the circumference of the intramedullary rod and from which teeth protrude and wherein the head is configured to be mated with the second mounting section.

61. (New) The intramedullary rod kit of claim 60, wherein the joint segment includes an opening into a longitudinal channel that extends along a portion of a length of the intramedullary rod.

62. (New) The intramedullary rod kit of claim 61, wherein the longitudinal channel includes a threaded portion.

63. (New) The intramedullary rod kit of claim 60, wherein an outer diameter of the intramedullary rod varies between approximately 10 mm and 25 mm at the joint segment and approximately 2 mm and 9 mm at the diaphyseal segment.

64. (New) The intramedullary rod kit of claim 60, wherein an outer diameter of the intramedullary rod varies between approximately 12 mm and 15 mm at the joint segment and approximately 3 mm and 5 mm at the diaphyseal segment.

65. (New) The intramedullary rod kit of claim 60, wherein an outer diameter of the intramedullary rod varies between approximately 14 mm at the joint segment and approximately 3 mm at the diaphyseal segment.

66. (New) The intramedullary rod kit of claim 60, wherein the joint segment has a round cross-section or an oval cross-section.

67. (New) The intramedullary rod kit of claim 60, wherein the diaphyseal segment has a round or a generally round cross-section.

68. (New) The intramedullary rod kit of claim 60, wherein a length of the rod is between approximately 50 mm and 100 mm.

69. (New) The intramedullary rod kit of claim 60, wherein a length of the rod is approximately 80 mm.

70. (New) The intramedullary rod kit of claim 60, wherein the first mounting section comprises at least one channel having a threaded inner diameter.

71. (New) The intramedullary rod kit of claim 70, further comprising at least one bone screw configured to be passed through the first mounting section to mount the intramedullary rod to a diaphyseal portion of the radius.

72. (New) The intramedullary rod kit of claim 71, wherein the bone screw is a unicortical bone screw or a bicortical bone screw.

73. (New) The intramedullary rod kit of claim 61, further comprising a guide configured to be mounted to the intramedullary rod and configured to orient drill guides to be collinear with the first mounting section and the second mounting section of the intramedullary rod.

74. (New) The intramedullary rod kit of claim 73, wherein the guide is mounted to the intramedullary rod by insertion of a portion of the guide into the longitudinal channel in the intramedullary rod.

75. (New) The intramedullary rod kit of claim 74, wherein the portion of the guide that is inserted into the longitudinal channel is threadably inserted into the longitudinal channel.

76. (New) The intramedullary rod kit of claim 60, further comprising written instructions for use.

77. (New) The intramedullary rod kit of claim 60, further comprising an instructional video.

78. (New) The intramedullary rod kit of claim 60, further comprising a drill bit configured to drill a hole in bone tissue.

79. (New) The intramedullary rod kit of claim 60, wherein the diaphyseal segment of the intramedullary rod comprises a dimpled surface.

80. (New) The intramedullary rod kit of claim 60, wherein the intramedullary rod, and/or the tine are coated with a therapeutic agent.

81. (New) An intramedullary rod kit for fixation of a distal radius fracture, the intramedullary rod kit comprising:

an intramedullary rod comprising:

a diaphyseal segment including at least one first mounting section configured to receive a tensioning device,

a middle segment; and

a joint segment including at least one second mounting section configured to receive a tine,

wherein the diaphyseal segment, the middle segment, and the joint segment define a curved configuration that is substantially similar to a curvature of the intramedullary canal of a human radius;

at least one tine; and

a tensiometer mounted to one or more of the intramedullary rod and the tine and being configured to measure a tension exerted against one or both of the intramedullary rod and the tine.

82. (New) The intramedullary rod kit of claim 81, further comprising:

a transmitter for transmitting the measured tension; and

a receiver for receiving and displaying the measured tension.

83. (New) The intramedullary rod kit of claim 81, wherein the joint segment includes an opening into a longitudinal channel that extends along a portion of a length of the intramedullary rod.

84. (New) The intramedullary rod kit of claim 83, wherein the longitudinal channel includes a threaded portion.

85. (New) The intramedullary rod kit of claim 81, wherein an outer diameter of the intramedullary rod varies between approximately 10 mm and 25 mm at the joint segment and approximately 2 mm and 9 mm at the diaphyseal segment.

86. (New) The intramedullary rod kit of claim 81, wherein an outer diameter of the intramedullary rod varies between approximately 12 mm and 15 mm at the joint segment and approximately 3 mm and 5 mm at the diaphyseal segment.

87. (New) The intramedullary rod kit of claim 81, wherein an outer diameter of the intramedullary rod varies between approximately 14 mm at the joint segment and approximately 3 mm at the diaphyseal segment.

88. (New) The intramedullary rod kit of claim 81, wherein the joint segment has one of a round cross-section and or an oval cross-section.

89. (New) The intramedullary rod kit of claim 81, wherein the diaphyseal segment has a round or a generally round cross-section.

90. (New) The intramedullary rod kit of claim 81, wherein a length of the rod is between approximately 50 mm and 100 mm.

91. (New) The intramedullary rod kit of claim 81, wherein a length of the rod is approximately 80 mm.

92. (New) The intramedullary rod kit of claim 81, wherein the first mounting section comprises at least one channel having a threaded inner diameter.

93. (New) The intramedullary rod kit of claim 92, further comprising at least one bone screw configured to be passed through the first mounting section to mount the intramedullary rod to a diaphyseal portion of the radius.

94. (New) The intramedullary rod kit of claim 93, wherein the bone screw is a unicortical bone screw or a bicortical bone screw.

95. (New) The intramedullary rod kit of claim 83, further comprising a guide configured to be mounted to the intramedullary rod and configured to orient drill guides to be collinear with the first mounting section and the second mounting section of the intramedullary rod.

96. (New) The intramedullary rod kit of claim 95, wherein the guide is mounted to the intramedullary rod by insertion of a portion of the guide into the longitudinal channel in the intramedullary rod.

97. (New) The intramedullary rod kit of claim 96, wherein the portion of the guide that is inserted into the longitudinal channel is threadably inserted into the longitudinal channel.

98. (New) The intramedullary rod kit of claim 81, wherein the tine comprises a shaft and is mounted to the rod in the second mounting section.

99. (New) The intramedullary rod kit of claim 98, wherein the second mounting section comprises a channel that includes a threaded portion and wherein the tine includes a first non-threaded section and a second threaded section, wherein the second threaded section is configured to be threadably mated to the threaded portion of the channel.

100. (New) The intramedullary rod kit of claim 98, wherein the second mounting section comprises a channel that includes a threaded portion and wherein the tine includes a first threaded section and a second threaded section, wherein the second threaded section is configured to be threadably mated to the threaded portion of the channel.

101. (New) The intramedullary rod kit of claim 100, wherein the first threaded section includes threads that are configured to be threadably mated with the bone fragment.

102. (New) The intramedullary rod kit of claim 81, further comprising written instructions for use.

103. (New) The intramedullary rod kit of claim 81, further comprising an instructional video.

104. (New) The intramedullary rod kit of claim 81, further comprising a drill bit configured to drill a hole in bone tissue.

105. (New) The intramedullary rod kit of claim 81, wherein the diaphyseal segment of the intramedullary rod comprises a dimpled surface.

106. (New) The intramedullary rod kit of claim 81, wherein the intramedullary rod, and/or the tine are coated with a therapeutic agent.

107. (New) The intramedullary rod kit of claim 81, wherein the tine comprises a press-fit tine including a head from which a shaft extends, wherein the shaft includes a stop, wherein the head and stop are configured to be mated with the second mounting section.

108. (New) An intramedullary rod kit for fixation of a distal radius fracture, the intramedullary rod kit comprising:

an intramedullary rod comprising:

a diaphyseal segment including at least one first mounting section configured to receive a tensioning device,

a middle segment; and

a joint segment including at least one second mounting section configured to receive a tine,

wherein the diaphyseal segment, the middle segment, and the joint segment define a curved configuration that is substantially similar to a curvature of the intramedullary canal of a human radius;

at least one tine; and

a tensioning device, wherein the tensioning device comprises a tie band fastener including a tie band, a slidable tab, and a stop.

109. (New) The intramedullary rod kit of claim 108, wherein the joint segment includes an opening into a longitudinal channel that extends along a portion of a length of the intramedullary rod.

110. (New) The intramedullary rod kit of claim 109, wherein the longitudinal channel includes a threaded portion.



111. (New) The intramedullary rod kit of claim 108, wherein an outer diameter of the intramedullary rod varies between approximately 10 mm and 25 mm at the joint segment and approximately 2 mm and 9 mm at the diaphyseal segment.

112. (New) The intramedullary rod kit of claim 108, wherein an outer diameter of the intramedullary rod varies between approximately 12 mm and 15 mm at the joint segment and approximately 3 mm and 5 mm at the diaphyseal segment.

113. (New) The intramedullary rod kit of claim 108, wherein an outer diameter of the intramedullary rod varies between approximately 14 mm at the joint segment and approximately 3 mm at the diaphyseal segment.

114. (New) The intramedullary rod kit of claim 108, wherein the joint segment has one of a round cross-section and or an oval cross-section.

115. (New) The intramedullary rod kit of claim 108, wherein the diaphyseal segment has a round or a generally round cross-section.

116. (New) The intramedullary rod kit of claim 108, wherein a length of the rod is between approximately 50 mm and 100 mm.

117. (New) The intramedullary rod kit of claim 108, wherein a length of the rod is approximately 80 mm.

118. (New) The intramedullary rod kit of claim 108, wherein the first mounting section comprises at least one channel having a threaded inner diameter.

119. (New) The intramedullary rod kit of claim 118, further comprising at least one bone screw configured to be passed through the first mounting section to mount the intramedullary rod to a diaphyseal portion of the radius.

120. (New) The intramedullary rod kit of claim 119, wherein the bone screw is a unicortical bone screw or a bicortical bone screw.

121. (New) The intramedullary rod kit of claim 109, further comprising a guide configured to be mounted to the intramedullary rod and configured to orient drill guides to be collinear with the first mounting section and the second mounting section of the intramedullary rod.

122. (New) The intramedullary rod kit of claim 121, wherein the guide is mounted to the intramedullary rod by insertion of a portion of the guide into the longitudinal channel in the intramedullary rod.

123. (New) The intramedullary rod kit of claim 122, wherein the portion of the guide that is inserted into the longitudinal channel is threadably inserted into the longitudinal channel.

124. (New) The intramedullary rod kit of claim 108, wherein the tine comprises a shaft and is mounted to the rod in the second mounting section.

125. (New) The intramedullary rod kit of claim 124, wherein the second mounting section comprises a channel that includes a threaded portion and wherein the tine includes a first non-threaded section and a second threaded section, wherein the second threaded section is configured to be threadably mated to the threaded portion of the channel.

126. (New) The intramedullary rod kit of claim 124, wherein the second mounting section comprises a channel that includes a threaded portion and wherein the tine includes a first threaded section and a second threaded section, wherein the second threaded section is configured to be threadably mated to the threaded portion of the channel.

127. (New) The intramedullary rod kit of claim 126, wherein the first threaded section includes threads that are configured to be threadably mated with the bone fragment.

128. (New) The intramedullary rod kit of claim 108, further comprising written instructions for use.

129. (New) The intramedullary rod kit of claim 108, further comprising an instructional video.

130. (New) The intramedullary rod kit of claim 108, further comprising a drill bit configured to drill a hole in bone tissue.

131. (New) The intramedullary rod kit of claim 108, wherein the diaphyseal segment of the intramedullary rod comprises a dimpled surface.

132. (New) The intramedullary rod kit of claim 108, wherein the intramedullary rod, and/or the tine are coated with a therapeutic agent.

133. (New) The intramedullary rod kit of claim 108, wherein the tine comprises a press-fit tine including a head from which a shaft extends, wherein the shaft includes a stop, wherein the head and stop are configured to be mated with the second mounting section.

134. (New) An intramedullary rod kit for fixation of a distal radius fracture, the intramedullary rod kit comprising:

an intramedullary rod comprising:

a diaphyseal segment including at least one first mounting section configured to receive a tensioning device,

a middle segment; and

a joint segment including at least one second mounting section configured to receive a tine,

wherein the diaphyseal segment, the middle segment, and the joint segment define a curved configuration that is substantially similar to a curvature of the intramedullary canal of a human radius;

at least one tine; and

a tensioning device, wherein the tensioning device comprises a molly bolt system that includes a head, a nut, and one or more flexible arms extending between the head and the nut.

135. (New) The intramedullary rod kit of claim 134, wherein the joint segment includes an opening into a longitudinal channel that extends along a portion of a length of the intramedullary rod.

136. (New) The intramedullary rod kit of claim 135, wherein the longitudinal channel includes a threaded portion.

137. (New) The intramedullary rod kit of claim 134, wherein an outer diameter of the intramedullary rod varies between approximately 10 mm and 25 mm at the joint segment and approximately 2 mm and 9 mm at the diaphyseal segment.

138. (New) The intramedullary rod kit of claim 134, wherein an outer diameter of the intramedullary rod varies between approximately 12 mm and 15 mm at the joint segment and approximately 3 mm and 5 mm at the diaphyseal segment.

139. (New) The intramedullary rod kit of claim 134, wherein an outer diameter of the intramedullary rod varies between approximately 14 mm at the joint segment and approximately 3 mm at the diaphyseal segment.

140. (New) The intramedullary rod kit of claim 134, wherein the joint segment has one of a round cross-section and or an oval cross-section.

141. (New) The intramedullary rod kit of claim 134, wherein the diaphyseal segment has a round or a generally round cross-section.

142. (New) The intramedullary rod kit of claim 134, wherein a length of the rod is between approximately 50 mm and 100 mm.

143. (New) The intramedullary rod kit of claim 134, wherein a length of the rod is approximately 80 mm.

144 (New) The intramedullary rod kit of claim 134, wherein the first mounting section comprises at least one channel having a threaded inner diameter.

145. (New) The intramedullary rod kit of claim 144, further comprising at least one bone screw configured to be passed through the first mounting section to mount the intramedullary rod to a diaphyseal portion of the radius.

146. (New) The intramedullary rod kit of claim 145, wherein the bone screw is a unicortical bone screw or a bicortical bone screw.

147. (New) The intramedullary rod kit of claim 135, further comprising a guide configured to be mounted to the intramedullary rod and configured to orient drill guides to be collinear with the first mounting section and the second mounting section of the intramedullary rod.

148. (New) The intramedullary rod kit of claim 147, wherein the guide is mounted to the intramedullary rod by insertion of a portion of the guide into the longitudinal channel in the intramedullary rod.

149. (New) The intramedullary rod kit of claim 148, wherein the portion of the guide that is inserted into the longitudinal channel is threadably inserted into the longitudinal channel.

150. (New) The intramedullary rod kit of claim 134, wherein the tine comprises a shaft and is mounted to the rod in the second mounting section.

151. (New) The intramedullary rod kit of claim 150, wherein the second mounting section comprises a channel that includes a threaded portion and wherein the tine includes a first non-threaded section and a second threaded section, wherein the second threaded section is configured to be threadably mated to the threaded portion of the channel.

152. (New) The intramedullary rod kit of claim 150, wherein the second mounting section comprises a channel that includes a threaded portion and wherein the tine includes a first

threaded section and a second threaded section, wherein the second threaded section is configured to be threadably mated to the threaded portion of the channel.

153. (New) The intramedullary rod kit of claim 152, wherein the first threaded section includes threads that are configured to be threadably mated with the bone fragment.

154. (New) The intramedullary rod kit of claim 134, further comprising written instructions for use.

155. (New) The intramedullary rod kit of claim 134, further comprising an instructional video.

156. (New) The intramedullary rod kit of claim 134, further comprising a drill bit configured to drill a hole in bone tissue.

157. (New) The intramedullary rod kit of claim 134, wherein the diaphyseal segment of the intramedullary rod comprises a dimpled surface.

158. (New) The intramedullary rod kit of claim 134, wherein the intramedullary rod, and/or the tine are coated with a therapeutic agent.

159. (New) The intramedullary rod kit of claim 134, wherein the tine comprises a press-fit tine including a head from which a shaft extends, wherein the shaft includes a stop, wherein the head and stop are configured to be mated with the second mounting section.